

Name(s) of Risk Team Members: J. Durnan, J. D’Ambra, E. Sperry			Point Value → Parameter ↓	1	2	3	4	5									
Job Title: Magnet Research & Development Technicians Job Number or Job Identifier: 29-06			Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift									
Job Description: Transferring LN2 for MAGCOOL to Lab 32 and transferring to Cryostat and system			Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability									
Training and Procedure List (Optional):			Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple									
Approved by: <i>E. Lessard</i> Date: 6-2-06 Rev. #: 0																	
Stressors (if applicable, please list all):			Reason for Revision (if applicable):			Comments:											
				Before Additional Controls										After Additional Controls			
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction	
Moving storage vessel (dewar) to/from location	Overexertion injuries caused by excessive lifting, pushing, pulling, holding or carrying an object	Wheeled dewars, training, safety shoes	N	1	4	3	3	36									
Moving storage vessel (dewar) in elevator	Oxygen deficiency	Training, no persons in elevator	N	1	4	1	1	4									
Connecting or disconnecting storage dewar to cryostat	Falls to lower level from step stool or other cryostat access	Step stool design, equipment inspection, Tier 1, training	N	1	4	2	1	8									
	Being struck by object due to pressure release	Vessel design/certification, equipment inspection, training, Safety glasses	N	1	4	2	2	16									
	Contact with temperature extremes that result in such injuries frost bite or burns	Training, procedures, gloves, eye protection, proper clothing	N	1	4	2	2	16									
	Oxygen deficiency	Training, posting, safety reviews, ventilation, ODH calculations, doors stay open, alarms	N	1	4	1	2	8									
Transferring cryogenic liquid	Being struck by object due to pressure release	Vessel design/certification, equipment inspection, training, Tier 1	N	1	4	2	2	16									

from storage dewar to cryostat	Contact with temperature extremes that result in such injuries frost bite or burns	Training, procedures, gloves, eye protection, proper clothing	N	1	4	2	2	16								
	Oxygen deficiency	Training, posting, safety reviews, ventilation, ODH calculations, doors stay open	N	1	4	1	2	8								
Transferring cryogenic fluid to portable dewar	Contact with temperature extremes that result in such injuries frost bite or burns	Training, procedures, gloves, eye protection, proper clothing	N	1	4	2	2	16								
	Oxygen deficiency	Training, posting, safety reviews, ventilation, ODH calculations, doors stay open	N	1	4	1	2	8								
	Cut by sharp object due to breakage of glass thermos dewar	Training, procedures, gloves, eye protection, proper clothing, wrapping dewar with tape	N	1	2	2	2	8								
Further Description of Controls Added to Reduce Risk:																
*Risk:	0 to 20	21 to 40	41-60			61 to 80			81 or greater							
	Negligible	Acceptable	Moderate			Substantial			Intolerable							